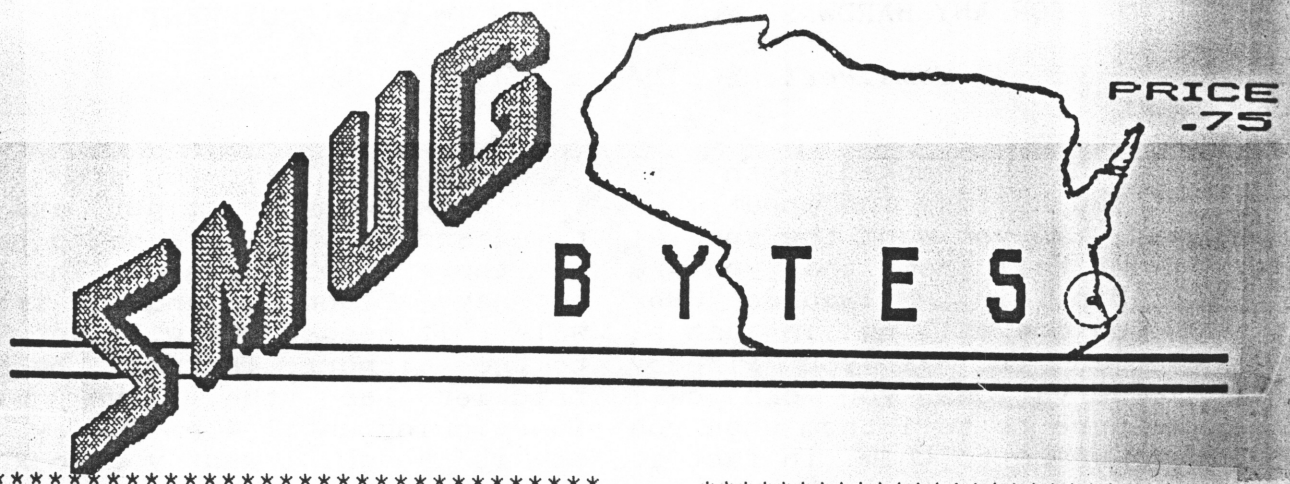

SMUG BYTES
Volume 7, Number 3
April 1990

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SINCLAIR MILWAUKEE USERS GROUP
P.O. Box 101, Butler WI 53007

THIS MONTH:

- *New vendors for Sinclair*
- *Whats New With The Expo*
- *Who will be at the Expo*
- *Presidents Message*
- *And Other Great Things*

If any articles are copied please credit SMUG BYTES

NEXT MEETING DATE: 05/02/90

Send all contributions by the 3rd Wednesday of the month to:

Bill Heberlein
Editor
SMUG BYTES
5052 N. 91st Street
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Some Pertinent Facts Regarding the Expo

Attention: I have checked with the manager of the Holiday Inn about your reservations. If you want the special rate you must tell them that you are with the Sinclair Milwaukee User Group. If you are calling in just be sure to mention it. If you already have made reservations you can call again or be sure to tell them when you check in or write to them. In fact it is not a bad idea to tell them again, upon arrival. They are only human and can screw up also. You know the old saying, "to screw up is human, but to really screw up it takes a computer." We don't want you to miss out on any good deals.

One more item: if you are flying in let us know your flight and arrival time and we will arrange to have some one there to pick you up. The Inn does not have a shuttle and it is a long walk. If needed, we will get you back to the airport. That may be a little trickier as the Expo will be functioning until 4:pm Sunday. We will do it though. I want you to know that there will be a new vendor at the Expo. It is an old friend with a new name. They will be handling the new ROM, Minerva, and burning them right there. We still have a few tables left so if your user group wants one you had better hurry. There are still seats for the delicious banquet but for a reminder I must tell the Inn ten days in advance the number of dinners.

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"SQ" NOTES

BY R.A.HILSMANN

Last month I managed to get all of the CHECKBOOK & BUDGET MANAGER into the columns, in other words, you have now the complete listing of the program if you have entered the listings from the last two issues of SMUG bytes.

This issue gives a listing of all lines which have hidden codes and tokens in them, to make the program more compact.

Only lines where codes & tokens occur are listed, ignore any additinal spaces, and do not enter any REM statements I have addded for clearity. Some lines list only those statements which contain such hidden codes etc., do not change any lines from the way they have been listed in previous issues of this Newsletter. Just move your cursor to the spot as you see it listed here, and make the changes.

Any lines pertaining to Micro-Drives (Interface 1) can not be entered unless you have the interface connected. Ignore those lines if you do not have an Interface 1.

On the other hand, if you have a different type of interface not covered by this program, make up your own save and load lines instead.

```
  10 REM
ALL TEXT WITHIN GRAPHIC MARKERS
 TEXT  ARE TOKENS, AS TO DO
NOT ENTER GRAPHICS!!
SOME TOKENS MAY REQUIRE THE
TOKEN "THEN" TO BE ENTERED FIRST
TYPE "THEN", ENTER THE DESIRED
TOKEN, NOW BACKSPACE TO ERASE
THE TOKEN "THEN".
  15 REM
ALL TEXT WITHIN GRAPHIC MARKERS
 TEXT  IS FLASHING TEXT.  USE
CS/SS TO GET THE EXTENDED MODE
CURSOR, NEXT HOLD THE SHIFTKEY
DOWN AND PRESS THE "9" KEY  TO
GET THE TEXT TO FLASH. MOVE  THE
CURSOR TOWARDS THE END MARKER ,
AND REPEAT THE PROCEDURE, BUT
PRESS "8" KEY TO END FLASHING.
  18 REM
  20 LET T=VAL "10": GO SUB VAL
"80": GO SUB BP: PRINT AT T,0;"E
NTER PAPER COLOR <0 TO 7>  "
  35 GO SUB BP: IF K THEN PRINT
'"DO YOU WISH TO LOAD DATA (
Y/N)"
  50 GO SUB BP: INPUT "HOW MANY
TRANSACTIONS DO YOU"'"WISH THIS
PROGRAM TO PROCESS"''"500 max.
",AT VAL "6",0;D
  70 DIM E$(D+VAL "2",VAL "41"):
 LET U=0: LET M=0: LET X=VAL "2"
: LET C=0: LET O$=" NEW REGIST
ER"
  140 PRINT "    PRESS ""0""(ZERO
) TO EXIT     "
  150 REM Graphics & shifted "3":
  PRINT "                    
                    ": RETURN
  170 REM FLASH CHR$ AT    = exte
nded mode CSSS & shifted "9",
to end flash CSSS & shifted "8"
at
: PRINT AT 0,0;" PRESS <ANY KEY
> TO ENTER DATA   PRESS <1>
(ONE) TO CORRECT DATA  ":
RETURN
  180 PRINT "     ENTER ""0""(ZER
O) TO EXIT     ": RETURN
  190 PRINT "PRESS ANY KEY TO C
ONTINUE "': RETURN
  400 PRINT AT VAL "16",0;" LIST
 TO PRINTER <Y/N>"
  520 INPUT "ENTER CHR$ IN FRO
NT OF CATEGORY YOU WISH TO VIE
W (A TO $)";AT 5,0;A$
  540 PRINT #0;"PRESS ""P"" FOR
 PRINTOUT"''"ANY OTHER KEY TO
RETURN TO MENU"
  560 PRINT "PRESS ANY KEY TO R
ETURN TO MENU "
  800 CLS : INK 9: BORDER 5: PRIN
T ; PAPER 1;"***CHECKBOOK & BUDG
ET MANAGER***"; PAPER 0;"
                    "; PAPE
R 2;"***** ";D+2-X;" TRANSACTION
S LEFT *****": PAPER 5: PRINT AT
 3,0;"PRESS";AT 5,0;"  1) TO VI
EW STATUS & ACCOUNTS"''"  2) T
O ENTER CHECKS (DEBITS)"''"  3)
 TO ENTER DEPOSITS (CREDITS)"'
''  4) TO LIST TRANSACTIONS"'
''  5) TO BALANCE ACCOUNT"''"
 6) TO RESET ACCOUNTS"''"  7)
 TO SAVE OR LOAD DATA ": GO
 SUB LI: PRINT AT 19,0;" LAST UP
DATE - ";O$''" TODAYS DATE - ";I
$: PLOT 0,159: DRAW 0,-135: PLOT
 255,159: DRAW 0,-135: GO SUB DL
: PRINT #0;AT 1,0;" ENTER CHOIC
E <1 TO 7> ": REM FLASH AT
1000 REM lots of statements.....
: PRINT #0;AT SGN PI,0;" ENTER
CHOICE "
1010 CLS : GO SUB ZO: GO SUB BP:
 LET FL=0: PRINT AT T,0;" TO VI
EW ACCOUNT STATUS PRESS ""V""",
AT VAL "15",0;"TO MAKE A CHANGE
 TO AN EXCISTINGACCOUNT TYPE ""
C""'"TO FORMAT NEW ACCOUNTS
 PRESS ""N"""
```

```
1050 CLS : GO SUB BP: PRINT AT V
AL "5",0;"THERE ARE  24 OUTGOING
 ACCOUNTS▗ AND ▚4 INCOME ACCOUNT
S WHICH YOU CAN TITLE▗ AND ▚DIME
NSION"''"ENTER THE TITLE▗ AND ▚T
HE AMOUNT"'"BUDGETED PER YEAR▗ F
OR ▚ALL ACC.": IF NOT FL THEN PR
INT ''"▗ IF ▚YOU▗ CONTINE ▚ALL
 PRESENTLY  FORMATED ACCOUNTS▗ AN
D ▚ASSOCIATED▗ DATA ▚WILL BE ERA
SED"'': GO SUB ZO
1150 GO SUB BP: GO SUB BP: LET Z
=1: CLS : PRINT "NOW TITLE THE I
NCOME-CATEGORYS  ▗AND ▚ENTER THE
 AMOUNT OF YEARLY  INCOME YOU EX
PECT▗ FOR ▚EACH"
1170 REM FLASH AT ▙ :
IF B>H THEN LET I=B-H: PRINT AT
VAL "14",VAL "17";"▙ OVER▟ "
1180 LET G=I: GO SUB GE: PRINT A
T VAL "13",VAL "23";"_________R
ESERVE";AT VAL "14",VAL "23";M$;
 GO SUB BP: PRINT '''';: GO SUB Z
0: PRINT "▗ FOR ▚PRINTOUT PRESS
""P"""
1210 CLS : LET F=0: LET Z=SGN PI
: LET N=VAL "28": GO SUB AC: INP
UT "ENTER ▗CHR$ ▗IN ▚FRONT OF TI
TLE OF CATEGORY▗ TO ▚BE CHANGED
(A▗ TO ▚$)";AT VAL "4",0; FLASH
SGN PI;A$
1240 NEXT : LET W=B: CLS : LET L
=J: LET D$=I$: LET FL=SGN PI: GO
 SUB VAL "530": LET FL=0: PRINT
AT VAL "14",0;: GO SUB ZE: PRINT
 AT VAL "19",0;T$(L): LET B=W: G
O SUB BP: INPUT "ENTER▗ NEW ▚TIT
LE >";Q$
1250 LET T$(L,VAL "6" TO VAL "22
")=Q$: PRINT AT VAL "19",VAL "5"
;Q$: LET F=VAL T$(L,VAL "24" TO
): GO SUB BP: INPUT "ENTER▗ NEW
▚AMOUNT >";G
2030 PRINT AT 20,0;: GO SUB ZE:
PRINT AT 18,0;B$;AT 17,15;"BALAN
CE ";M$: IF G=1 THEN PRINT AT 17
,5;" ▙ >>>▟  OVERDRAWN ▙ <<<▟ "
2150 LET G=VAL D$: GO SUB GE: PR
INT AT 18,23;M$: LET E$(X,22 TO
30)=M$: LET I=G: GO SUB BP: GO S
UB 170: GO SUB BP: PRINT #0;AT 1
,0;"▙ ↑▟  CONFIRM ▙ ↑▟ ": REM FL
ASHING "↑"
2200 LET V=0: REM FLASHING "=":
PRINT AT 20,0;"Enter > ▙ =▟  to
view account status": GO SUB BP:
 INPUT "CATEGORY >";A$: IF A$="=
" THEN LET V=1: INPUT "CATEGORY▗
 TO ▚VIEW >";A$
2310 DATA "JAN","FEB","MAR","APR
","MAY","JUN","JUL","AUG","SEP",
"OCT","NOV","DEC": PRINT AT 6,1;
"BALANCE▗ FOR ▚";G$(B);"  ";M$:
2320 PRINT AT 8,1;"BALANCE▗ FOR
▚YEAR:";M$;AT 10,1;
4000 CLS : LET G=0: LET V=0: LET
 F$="": GO SUB DL: PRINT AT T,0;
"PRESS ""C""▗ TO ▗LIST ▚SPECIAL"
'" CATEGORY▗ OR ▗FOR ▚SEARCH"''
'"ANY KEY▗ TO ▗LIST ▚REGISTER"
4010 DIM C$(4): CLS : GO SUB BP:
 PRINT AT T,0;"FROM WHICH CHECK
NUMBER DO YOU  WISH LISTING▗ TO
▚BEGIN ? "''''"PRESS <ENTER>▗ TO
 ▗LIST ▚FROM"'"BEGINNING OF FILE
.":
4020 REM FLASH AT ▙ : CLS : PRIN
T AT 0,VAL "6";"▙ one moment ple
ase▟ ":
4070 GO SUB DL: CLS : PRINT AT 8
,0;"WOULD YOU LIKE▗ TO ▚:"''" 1
)▗ LIST ▚ENTRIES BY MONTH"''" 2)
▗ LIST ▚ENTRIES BY DATE"''" 3)▗
LIST ▚AN ENTRY BY NUMBER"''" 4)▗
 LIST ▚ENTRIES BY DESCRIPTION"''
" 5)▗ LIST ▚ENTRIES BY CATEGORY"
4100 GO SUB BP: CLS : LET V=1: I
NPUT "ENTER MONTH▗ TO ▚BE LISTED
";AT 5,0;"1 TO 12 ";F$:
4200 CLS : DIM C$(5): GO SUB BP:
 INPUT "ENTER DATE▗ TO ▚BE LISTE
D",AT 5,0;"MONTH/DATE <6/21> ";C
$: LET V=2: GO TO 4600
4300 CLS : DIM C$(4): GO SUB BP:
 INPUT "ENTER CHECK▗ OR ▚DEPOSIT
 NUMBER";AT 5,0;C$: LET V=3: GO
TO 4600
4400 CLS : DIM C$(12): GO SUB BP
: INPUT "ENTER SOURCE▗ OR ▚NAME
OF DEPOSIT▗ OR ▚CHECK▗ TO ▚BE LI
STED";AT 5,0;C$: LET V=4: GO TO
4600
4500 CLS : GO SUB DL: LET F=0: L
ET Z=1: LET N=28: GO SUB AC: INP
UT "ENTER LETTER ▗IN ▚FRONT OF"'
"CATEGORY▗ TO ▚BE LISTED";AT 5,0
;F$: LET V=5
4600 LET W=2: GO SUB LS: LET J=0
: LET H=0: CLS : PRINT AT 0,11;"
▙ SEARCHING▟ ": REM FLASH AT ▙
4710 GO SUB BP: PRINT '"▗ TO ▗LI
ST ▚MORE ITEMS PRESS ""C"""'';:
5000 CLS : GO SUB DL: PRINT AT T
,0;"HAVE YOU DEDUCTED ALL BANK"'
"CHARGES▗ AND ▚AUTOMATIC PAYMENT
S ?"''"PRESS""X""▗ TO ▚EXIT"'"AN
Y KEY▗ TO ▗CONTINUE ▚":
5005 PRINT AT 0,0;"CHECK  OF  AL
L  WITHDRAWALS  ANDDEPOSITS ON Y
OUR BANK STATEMENT,AND PRESS  ""
1""  (ONE)  ▗FOR ▚ EACHAPPEARING
 ON  BOTH THE STATEMENTAND BELOW
.  PRESS ""0"" (ZERO) FORLISTING
S  ▗NOT ▚ APPEARING  ON THEBANK
STATEMENT",,B$;B$;"          PRESS
""▙ X▟ ""▗ TO ▚EXIT          ": GO
 SUB LI: PRINT AT 17,0;B$;B$;B$;
B$;B$: PAPER 2: PRINT AT 16,0;:
GO SUB LI: PAPER 5: FOR /2 TO X-
1: IF E$(L,41)="1" THEN PRINT AT
 19,0;"▙ one moment please▟ ": R
EM FLASHING "X" & ↑↑
5050 PRINT #0,AT 1,0;"▙ ENTER 1
> 0 OR X▟ ": IF X=2 THEN PRINT A
T 19,0;"▙no entries found▟": PAU
SE 0: GO TO MENU
5140 NEXT : GO SUB BP: CLS : PRI
NT : INPUT "ENTER BANK STATEMENT
 BALANCE    ▗OR ▚'X'▗ TO ▚EXIT";
AT 4,0;K$:
5160 LET B=VAL K$: LET V=B+H: LE
T N=A+P: LET Q=I+H: LET F=V-P: L
ET G=B: GO SUB GE: CLS : GO SUB
DL: PRINT "STATEMENT BALANCE
  ";M$: LET G=H: GO SUB GE: PRIN
T '"DEPOSITS MADE▗ AND ▗NOT ▚"'"
SHOWN ON STATEMENT";TAB 23;M$: L
ET G=V: GO SUB GE: PRINT TAB VAL
 "24";"_________"," TOTAL ";M$: L
ET G=P: GO SUB GE: PRINT '"TOTAL
 CHECKS ▗NOT ▚SHOWN"'"ON BANK ST
ATEMENT";TAB VAL "23";M$;TAB VAL
 "24";"_________".
```

```
5170 REM ........................
: PRINT ''"▞ FOR ▚PRINTOUT PRESS
 ""P"""'':
6000 CLS : GO SUB DL: PRINT AT 3
,0;"WOULD YOU LIKE▞ TO ▚";AT 5,0
;"1)▞ CLEAR ▚ALL▞ DATA ▚?";AT 7,
0;"2)▞ CLEAR ▚CHECK-DATA, BUT KE
EP       BUDGET-ACCOUNTS INTACT ?
";AT 10,0;"3) RESET AMOUNTS SPEN
T▞ TO ▚""0""":
7000 REM FLASH AT ▙ : CLS : GO S
UB BP: LET FL=0: LET F=0: PRINT
AT T,F;"▙  ARE YOU SAVING▞ OR ▚
LOADING▞ DATA ▚ ▟ "''' """S""  ▞
FOR ▚SAVING; ""L""▞ FOR ▚LOADING
":
7010 REM FLASH: CLS : PRINT AT T
,0;"▙ ARE YOU LOADING▞ OR ▚SAVIN
G▟"
7012 GO SUB DL: PRINT AT 12,0;"▞
 TO ▚"'''"TAPE","press <T>"'"DIS
K","press <D>"'"MICRO-DRIVE","pr
ess <M>":
7020 CLS : GO SUB BP: PRINT AT T
,0;"▙ INSERT DISK,CARTRIDGE▞ OR
▚TAPE▟ ": IF FL THEN PRINT ''"▙
▞AND ▚PRESS ENTER WHEN READY▟ ":
 REM FLASH AT ▙
7022 PRINT '''''"WHICH DRIVE ARE
 YOU USING▞ TO ▚"'"▞ LOAD ▞OR ▞S
AVE ▚YOUR▞ DATA ▚<1-2-?>":
7023 GO SUB BP: INPUT "ENTER FIL
E NAME▞ OR ▚TOKEN▞ CAT ▞TO ▚CATA
LOG DISK-FILES",AT T,0;N$:
7040 CLS : GO SUB BP: PRINT AT 1
0,6;"▙ LOADING DATA ▟ "'': REM F
LASH
7080 CLS : GO SUB BP: PRINT AT T
,0;"PREPARE TAPE▞ OR ▚DRIVE THEN
 "''"PRESS ENTER":
7090 IF Q$="M" THEN CLS : PRINT
AT T,0;"▙ ERASING OLD DATA ▟ ":
GO SUB DL
7100 IF Q$="M" THEN ERASE "M";V;
N$: PRINT '"▞ DATA ▚";N$;" ERASE
D": GO SUB BP: ERASE "M";V;"BUD.
ACC": PRINT "BUD.ACC▞ DATA ▚ERAS
ED": GO SUB BP: ERASE "M";V;"SPE
NT": PRINT "▞ DATA ▚SPENT ERASED
": GO SUB BP: PAUSE 20
7160 REM LOTS OF STATEMENTS.....
: PRINT AT VAL "2",INT PI;"▙ VER
IFYING ▞DATA ▚▟ "''"▙ REWIND TAP
E▟ ": VERIFY N$ DATA E$(): GO SU
B BP: VERIFY N$+"BUD" DATA T$():
 GO SUB BP: VERIFY N$+"SPENT" DA
TA O(): GO SUB BP: PRINT ''"▙ ▞D
ATA ▚ VERIFIED▟ ": REM FLASH....
.
7180 REM LOTS OF STATEMENTS.....
: PRINT "BACKUP▞ COPY ▚(Y/N)":
7200 REM LOTS OF STATEMENTS.....
: PRINT AT 2,3;"▙ VERIFY'ING▞ DA
TA ▚ ▟ ":.......................:
 PRINT ''"▞ DATA ▚";N$;" VERIFIE
D":.............................:
 PRINT "BUD.ACC▞ DATA ▚ VERIFIED
":.............................:
 PRINT ''"▞ DATA ▚SPENT VERIFIED
":
7210 DATA "CHECK REGISTER LOADED
","BUDGET ACCOUNTS LOADED","▞ DA
TA ▚SPENT LOADED"
7220 DATA "SAVING CHECKING▞ DATA
 ▚","SAVING BUDGET▞ DATA ▚","SAV
ING▞ DATA ▚'SPENT'"
```

IS THIS IT?
I GUESS NOT!

Last month I mentioned about UPDATES magazine and how Bill Jones would not be able to keep it going. Well I got a call from Frank Davis of the Indiana group and he is going to handle the publication for SNUG starting with the October issue. So at times it may seem like all of the Sinclair community is hanging from the end of a shredding rope, there are heroes that ride in with tape to shore up the rope. We still may be at the end of the long rope but at least it is in better shape. What we really could use is some help from Sinclair, Sugar, and/or help from the European community.

There is an idea of and international group and I feel this may help extend the life of our "Great Little Computers." The other thing is to try to show off what the Sinclair can do. If there are computer shows in your area try to get a spot where you can show off your ZX81/1000, Spectrum/2068 QL or Z88. Get in touch with local newspapers or radio amateur or amateur astronomer society. They may be looking for help with z88 programming. One other avenue to explore is its a cheap first computer for the child. If people know about the "little black box" that a child can operate and doesn't cost an arm or leg you may get new members at a younger age. There is one other way that I know of and that's going to swap fests and flea markets and leaving flyers with any one selling Sinclair hardware or software besides at the entrance to the place. If we can get more people interested in the Sinclair line maybe we can get Sugar or someone to start up the line again. It sure would be nice to see 400 to 500 attendees at the annual fest. One other option is to produce a little programming class to be shown on your local cable network. This could also bring them in or at least make them aware of what a computer can do for them and what they can do with a "real" computer.

MCMCMCMCMCMCMCMCMCMCMCMCMCMCM

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The Digitizer and A Problem Found. Notes From Marty.

By now there are several of you playing around with the digitizer board. Some of you have had great pictures created and some are getting a black scan after 3 to 7 passes. I myself was getting a black scan just by bringing my hand NEAR the board. All is not lost. I have found the problem on the board. Somehow when the boards were made a foil run was omitted & that's causing this problem. Please refer to the schematic diagram and note that pins 1 & 20 are BOTH tied to the 5 volt line. On the board a jumper on the component side was omitted. This can easily be corrected. Hold the board in your hand with the component side away from you and refer to the layout diagram. IC6 is the IC in the lower right hand corner & pins 1 & 20 are the pins at the bottom. Add a bridge of solder from the open bottom pin to the foil run connecting the other bottom pin and you are all set. If you have any doubts about doing this - Continued on page 8.

PRESIDENTS MESSAGE

More on the new magazine, Computer Buyers Guide. It looks like Bill Ferrebee will be writing the classic computer section. It will be the only non TS magazine publishing Sinclair information. Bill and I attended the Ham/Swap show in Madison, and it was a disappointment. Not much to be had.

Others: Sat., May 5, 1990, Circle B Rec Center, Cedarburg WI $3 at door. Tri-County Ham's Swapfest, May 12, 90; Jefferson County Fairgrounds, Hy 18 West Jefferson, WI; 8 - 2, in/out door &$3. June 2-3, 1990, Sinclair Expo Waukesha Holiday Inn, Waukesha WI.

One other note on the Expo. If you are flying in and need a ride to the Expo please call us with your flight and we will try to arrange transportation. We will get you to and from the airport and the motel.

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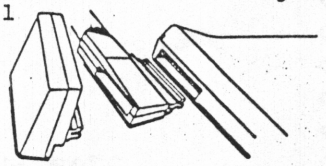

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Freebie

I had to write a program to keep track of the Expo attendees for producing badges and I will have that available at the expo. There will be no charge, if you supply your own media. Please note this is for the QL and I am using 3 1/2 disks, but I should have a 5 1/4 available also. I will also have a new program available, for the QL, that is for voting. It will keep track of the voting for officers of your user group or what have you. It also will be free. They will be available Sat. afternoon as my QL may be tied up in the morning with registration for the Expo.

Be sure to attend the SNUG meeting Saturday night. Meet at least some of the officers and find out just what the situation with SNUG is. Paul Holmgren is the acting President and will be there. Voice your opinions and have your say. The meeting will be pool side so if it gets to hot you can just go jump, in the pool that is, and cool off.

So "see you in Milwaukee" June 2-3 and hope you get what you want.

Digitizer Continued.

feel free to return the board to me, c/o SMUG, P.O. Box 101, Butler WI 53007, and I will correct it for you.

I still do not know why these boards worked at all. With that pin floating in space the 8 flip-flops in the 74HCT273 could Clear whenever they felt like it. Well I guess I'll see some of you at the Expo. Right now I am going to get started on trying out John McMichael's "VIDEOTEX" program using the OKIMATE 20 color printer to colorize some of these pictures I've digitized. Marty Miller.

Bill brought some of the T shirts that will be used for the Expo. The general consensus is they look great. To hold the price down we are setting the price under $7. Also it seems the Expo will require many hands to keep the Expo going. So please attend this next meeting for assignments. There will be special incentives for those helping with the Expo.

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OKI 20 FEATURES? The OKI 20 can print in NLQ, draft, pica, elite, fine, double width, italics, sub/superscript, & underline. Plain or thermal paper (tractor/friction feed) or acetate transparencies can be used.

COLOR SCREEN$ HARD-COPY? Yes!! "COLOR COPY" supports *FULL COLOR* and b/w SCREEN$ dumps & "PAINT & COPY" features *HI-RES MODE* coloring and copying.

CUSTOM CHARACTER SETS? Yes, downline loadable character sets of custom characters and graphics can be designed and transfered to an OKI 20. The utility software "OKI D.L.C.G." allows for easy design of custom char. sets and "OKI D.L.P.G." can transform a portion of a SCREEN$ picture into a downline loadable character set.

OKIMATE 20 EXPENSIVE? No, the OKI 20 & Plug 'n Print cart. are widely available for about $180.

For a print sample, info. on 2068 software for the OKI 20, and a list of OKI 20 dealers/prices, send a LSASE to:

John McMichael
1710 Palmer Dr.
Laramie, WY 82070

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Multiply by three the enjoyment that can come from your S.M.U.G. Video Digitizer & TS2068 with this new software:

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VIDEOCOPY: Only for owners of an OKIMATE 20 color printer with IBM parallel Plug 'n Print cartridge. Allows a video image captured by VIDEOTEX to be hardcopied in 13-level b/w greyscale or in color. Very colorful hi-res "modern art" depictions of the original b/w video image are automatically produced from a video data file. A color editor is available for custom "colorizing".

This software is priced at $9.95 post-paid each, and comes with complete user notes & video digitizing suggestions. Send LSASE for additional information and order form to:
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The Sinclair Milwaukee Users Group
(SMUG)

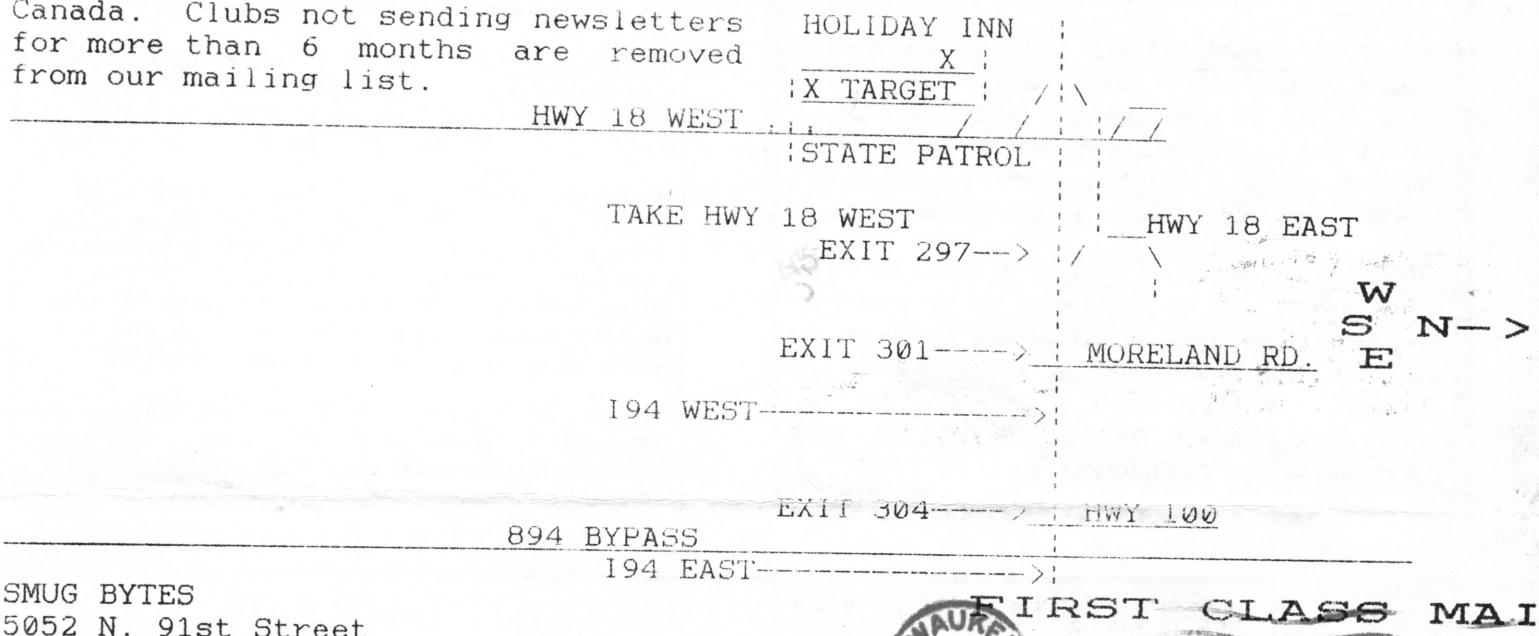
We are a not-for-profit group devoted to serving the interests of those who own, use, and/or are interested in the Timex/Sinclair family of computers.

Editor and contact person is:
Bill Heberlein (414) 527 2191.

SMUG maintains a gratis exchange of newsletters with approximately 30 Users Groups across the U.S. and Canada. Clubs not sending newsletters for more than 6 months are removed from our mailing list.

Newsletter subscription is available for only $10 per year to non members or free with a club membership. A club membership is $20 per year for a family membership.

Advertising cost for 1/2 page ad runing for six months is $10. The ad copy may be changed each month but you must supply the copy.



SMUG BYTES
5052 N. 91st Street
Milwaukee WI 53225
Address Correction Requested

The next meeting of SMUG will be held on:
Wednesday, May 2,1990

6pm Set Up
6:30 View Of Registration & Costs
7:30 Business Meeting
8:30 Assignment-Fest responsibilities
8:45 Whatever else you would like
10:30 Clean Up

Location:
Equitable Savings and Loan,
145th and Capital Drive,
Milwaukee Wisconsin